

Title (en)  
Recombinant trimeric 4-1BBL

Title (de)  
Rekombinanter trimerer 4-1BB Ligand

Title (fr)  
Ligand recombinant trimeric de 4-1BB

Publication  
**EP 1736482 A1 20061227 (EN)**

Application  
**EP 05291319 A 20050620**

Priority  
EP 05291319 A 20050620

Abstract (en)  
The invention relates to recombinant 4-1 BBL polypeptides comprising the whole extracellular domain of native 4-1 BBL, and a cross-linkable peptide domain. These recombinant polypeptides are able to associate into homotrimers. Said homotrimers have an inhibitory effect on the proliferation of T-lymphocytes. These homotrimers can be complexed or linked to a solid support through their cross-linkable domains. These cross-linked recombinant 4-1 BBL homotrimers have a costimulatory activity on T lymphocytes. The non-crosslinked form of trimeric recombinant 4-1 BBL can be used for inhibiting the proliferation of T-lymphocytes, while the crosslinked form can be used for activation and expansion of T lymphocytes.

IPC 8 full level  
**C07K 14/52** (2006.01); **C12N 5/00** (2006.01); **C12N 15/62** (2006.01)

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**C07K 14/52** (2013.01); **A61K 38/00** (2013.01); **C07K 2319/00** (2013.01); **C07K 2319/70** (2013.01)

Citation (search report)

- [XY] WO 0142298 A1 20010614 - KORNBLUTH RICHARD S [US]
- [Y] WO 2005007116 A2 20050127 - VALEOCYTE THERAPIES LLC [US], et al
- [A] WO 03102207 A2 20031211 - CENTRE NAT RECH SCIENT [FR], et al
- [A] WO 2004069876 A2 20040819 - MICROMET AG [DE], et al
- [A] US 5716805 A 19980210 - SRINIVASAN SUBHASHINI [US], et al
- [A] WO 0222833 A1 20020321 - UNIV STUTTGART [DE], et al
- [A] US 6355779 B1 20020312 - GOODWIN RAYMOND G [US], et al
- [A] WO 9426290 A1 19941124 - IMMUNEX CORP [US]
- [A] WO 02080955 A1 20021017 - BARNES JEWISH HOSPITAL [US]
- [A] US 5723584 A 19980303 - SCHATZ PETER J [US]
- [X] WALLEN-OHMAN M ET AL: "Immunotherapy with tumor targeted superantigens: Potentiation of the immune response by soluble recombinant 4-1BB ligand produced in E. coli", IMMUNOLOGY LETTERS, vol. 73, no. 2-3, September 2000 (2000-09-01), & 24TH EUROPEAN IMMUNOLOGY MEETING OF THE EUROPEAN FEDERATION OF IMMUNOLOGICAL SOCIETIES (EFIS); POZNAN, POLAND; SEPTEMBER 23-26, 2000, pages 286, XP009053375, ISSN: 0165-2478

Cited by  
KR100850880B1; CN107207579A; US7745215B2; JP2016523930A; US10344072B2; US11584787B2; US10464981B2; WO2016156291A1; US8017582B2; US9079976B2; US10392445B2; US11267903B2; US11306154B2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

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